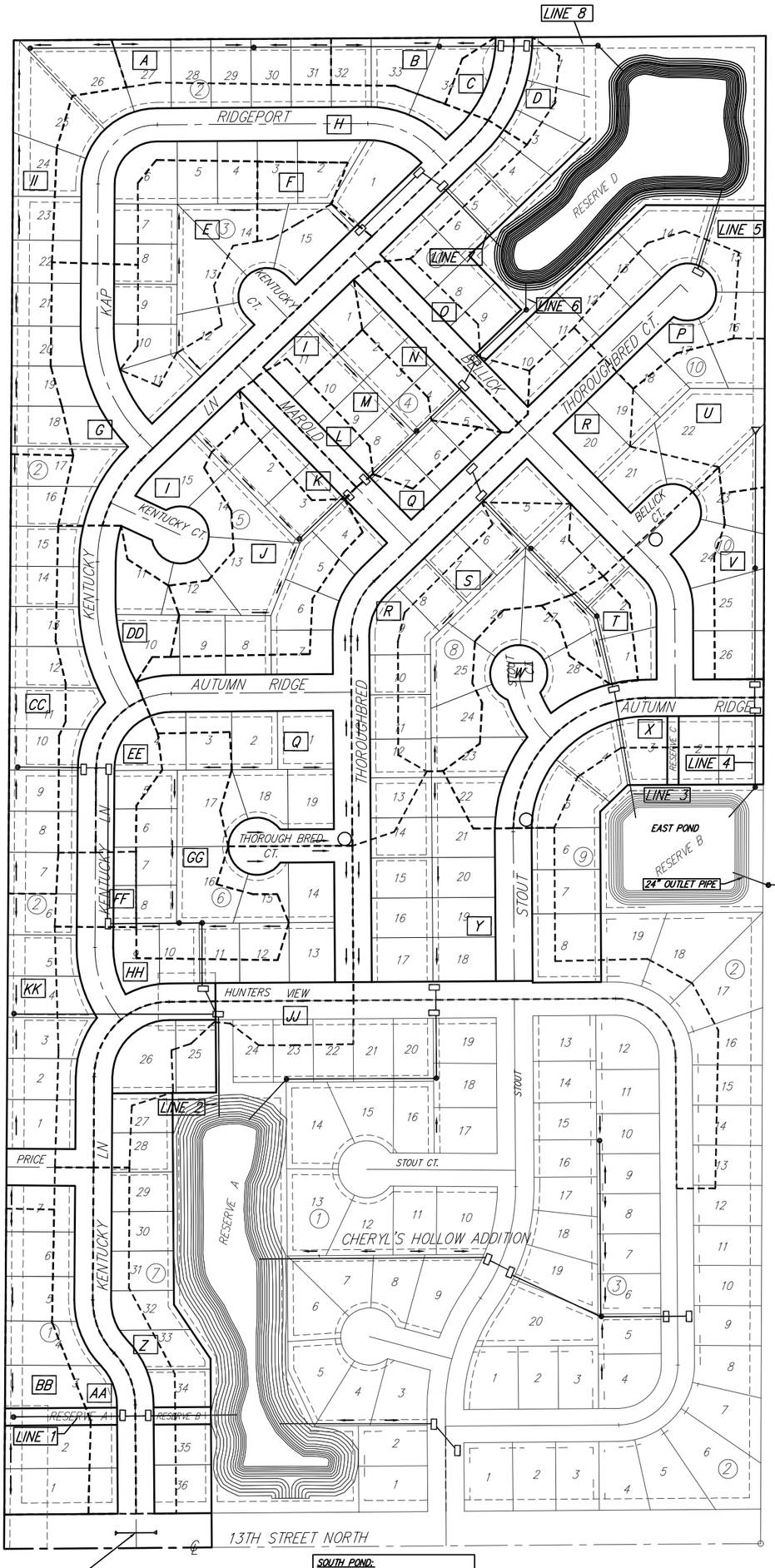
CHERYL'S HOLLOW SECOND ADDITION
Wichita, Sedgwick County, Kansas
DRAINAGE PLAN



NORTH POND:
Outlet Structure: 4.5' NOTCHED WEIR
Static Pool = 1360.50
Q100 Inflow (Developed) = 122 CFS
Q100 Outflow from Pond = 62 CFS
100 Year Water Surface = 1363.2
Discharge to Swale flowing North

EAST POND:
Outlet Structure: 24" RCP Pipe
Static Pool = 1359.00
Q100 Inflow (Developed) = 81 CFS
Q100 Outflow from Pond = 27 CFS
100 Year Water Surface = 1361.7
Discharge to 24" RCP in Copper Gate

Existing 24" SWS IN COPPER GATE NORTH

OFFSITE DRAINAGE
Area = 16.0 acres
Q100 = 50 cfs
(Per Baughman Company)

24" RCP
U.S. FL = 1362.50
D.S. FL = 1362.20
Area = 1.5 acres
Q100 = 6 cfs

SOUTH POND:
Outlet Structure: 3-36" RCP Pipes
Static Pool = 1359.00
Q100 Inflow (Developed) = 130.0 CFS
Q100 Outflow from Pond = 76 CFS
100 Year Water Surface = 1362.7
Discharge to existing 42"X60" CMPA under 13th Street North.

BASIN	Description	Area (acres)	Tc (min)	C2	C100	I2	I100	Q2	Q100
A	Rear Yard	0.67	15	0.4	0.65	3.83	7.37	1.03	3.21
B	Rear Yard	0.49	15	0.4	0.65	3.83	7.37	0.75	2.35
C	Lots & Street	0.25	15	0.5	0.69	3.83	7.37	0.48	1.27
D	Lots & Street	0.32	15	0.5	0.69	3.83	7.37	0.61	1.63
E	Rear Yard	1.36	15	0.4	0.65	3.83	7.37	2.08	6.52
F	Rear Yard	0.35	15	0.4	0.65	3.83	7.37	0.54	1.68
G	Lots & Street	2.58	15	0.5	0.69	3.83	7.37	4.94	13.12
H	Lots & Street	3.05	15	0.5	0.69	3.83	7.37	5.84	15.51
I	Lots & Street	2.18	15	0.5	0.69	3.83	7.37	4.17	11.09
J	Rear Yard	1.72	15	0.4	0.65	3.83	7.37	2.64	8.24
K	Lots & Street	0.37	15	0.5	0.69	3.83	7.37	0.71	1.88
L	Lots & Street	0.39	15	0.5	0.69	3.83	7.37	0.75	1.98
M	Rear Yard	0.82	15	0.4	0.65	3.83	7.37	1.26	3.93
N	Lots & Street	0.64	15	0.5	0.69	3.83	7.37	1.23	3.25
O	Lots & Street	0.50	15	0.5	0.69	3.83	7.37	0.96	2.54
P	Lots & Street	1.10	15	0.5	0.69	3.83	7.37	2.11	5.59
Q	Lots & Street	3.34	15	0.5	0.69	3.83	7.37	6.40	16.98
R	Lots & Street	2.82	15	0.5	0.69	3.83	7.37	5.40	14.34
S	Rear Yard	1.75	15	0.4	0.65	3.83	7.37	2.68	8.38
T	Rear Yard	0.43	15	0.4	0.65	3.83	7.37	0.66	2.06
U	Rear Yard	1.07	15	0.4	0.65	3.83	7.37	1.64	5.13
V	Rear Yard	0.62	15	0.4	0.65	3.83	7.37	0.95	2.97
W	Lots & Street	2.56	15	0.5	0.69	3.83	7.37	4.90	13.02
X	Lots & Street	0.97	15	0.5	0.69	3.83	7.37	1.86	4.93
Y	Lots & Street	3.50	15	0.5	0.69	3.83	7.37	6.70	17.80
Z	Lots & Street	0.99	15	0.5	0.69	3.83	7.37	1.90	5.03
AA	Lots & Street	1.08	15	0.5	0.69	3.83	7.37	2.07	5.49
BB	Lots & Street	1.39	15	0.5	0.69	3.83	7.37	2.66	7.07
CC	Rear Yard	1.55	15	0.4	0.65	3.83	7.37	2.37	7.43
DD	Lots & Street	1.60	15	0.5	0.69	3.83	7.37	3.06	8.14
EE	Lots & Street	0.50	15	0.5	0.69	3.83	7.37	0.96	2.54
FF	Lots & Street	0.42	15	0.5	0.69	3.83	7.37	0.80	2.14
GG	Rear Yard	1.59	15	0.4	0.65	3.83	7.37	2.44	7.62
HH	Lots & Street	2.32	15	0.5	0.69	3.83	7.37	4.44	11.80
II	Rear Yard	1.53	15	0.4	0.65	3.83	7.37	2.34	7.33
JJ	Lots & Street	1.12	15	0.5	0.69	3.83	7.37	2.14	5.70
KK	Rear Yard	1.08	15	0.4	0.65	3.83	7.37	1.65	5.17

Storm	Predeveloped East Basin	Developed East Pond	Predeveloped South Basin	Developed South Pond	Predeveloped North Basin	Developed North Pond	Predeveloped Total	Developed Total
2 Year	19	8	48	22	32	18	98	48
5 Year	28	13	73	35	48	27	148	75
100 Year	61	27	157	76	104	62	323	165

DWG FILE: SURVEY BASE
PROJECT NO. 2820P
DECEMBER 7, 2005

Ruggles & Bohm, P.A.
Engineering, Surveying, Land Planning
924 North Main
Wichita, Kansas 67203
www.rbkansas.com
(316) 264-8008
(316) 264-4621 fax
E-mail: info@rbkansas.com